

JOINT DECLARATION FOR PATENT APPLICATION

As the below named inventor, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names;

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled DIGITAL AMPLIFICATION, the specification of which

- ☐ is attached hereto.
- ☒ was filed on July 11, 2000 as Application Serial Number 09/613,826 and was amended on (if applicable).
- ☐ was filed under the Patent Cooperation Treaty (PCT) and accorded International Application No. _____, filed _____, and amended on _____ (if any).

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

We hereby acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56(a).

Prior Foreign Application(s)

We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

| Country | Application No. | Date of Filing (day month year) | Date of Issue (day month year) | Priority Claimed Under 35 U.S.C. §119 |
|---------|-----------------|------------------------------------|-----------------------------------|--|
| | | | | |

Prior United States Provisional Application(s)

We hereby claim priority benefits under Title 35, United States Code, §119(e)(1) of any U.S. provisional application listed below:

| U.S. Provisional Application No. | Date of Filing (day month year) | Priority Claimed Under 35 U.S.C. §119(e)(1) |
|----------------------------------|------------------------------------|--|
| 60/146,792 | 02 August 1999 | Yes |
| | | |

Prior United States Application(s)

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

| Application Serial No. | Date of Filing (Day, Month, Year) | Status — Patented, Pending, Abandoned |
|------------------------|--------------------------------------|--|
| | | |

Power of Attorney

And we hereby appoint, both jointly and severally, as our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the following attorneys and agents, their registration numbers being listed after their names:

| | | | | | |
|---------------------------|--------|------------------------|--------|----------------------|--------|
| ALTHERR, Robert F. | 31,810 | HOSCHEIT, Dale H. | 19,090 | PATEL, Binal J. | 42,065 |
| BANNER, Donald W. | 17,037 | IWANICKI, John P. | 34,628 | PATHAK, Ajay S. | 38,266 |
| BANNER, Mark T. | 29,888 | JACKSON, Thomas H. | 29,808 | PAYNE, Stephen S. | 35,316 |
| BANNER, Pamela I. | 33,644 | KAGAN, Sarah A. | 32,141 | PETERSON, Thomas L. | 30,969 |
| BECKETT, William W. | 18,262 | KATZ, Robert S. | 36,402 | POTENZA, Joseph M. | 28,175 |
| BODNER, Jordan | 42,338 | KLEIN, William J. | 43,719 | PRATT, Thomas K. | 37,210 |
| BUROW, Scott A. | 42,373 | KRAUSE, Joseph P. | 32,578 | RENK, Christopher J. | 33,761 |
| CALLAHAN, James V. | 20,095 | LINEK, Ernest V. | 29,822 | RESIS, Robert H. | 32,168 |
| CHANG, Steve S. | 42,402 | MALONE, Dale A. | 32,155 | RIVARD, Paul M. | 43,446 |
| COHAN, Gregory J. | 40,959 | MANNAVA, Ashok K. | 45,301 | SCHAD, Steve P. | 32,550 |
| COOPERMAN, Marc S. | 34,143 | McDERMOTT, Peter D. | 29,411 | SHANAHAN, Michael H. | 24,438 |
| CURTIN, Joseph P. | 34,571 | McKEE, Christopher L. | 32,384 | SHIFLEY, Charles W. | 28,042 |
| DAWSON, John R. | 39,504 | McKIE, Edward F. | 17,335 | SKERPON, Joseph M. | 29,864 |
| DEMOOR, Laura J. | 39,654 | MEDLOCK, Nina L. | 29,673 | STOCKLEY, D. J. | 34,257 |
| EVANS, Thomas L. | 35,805 | MEECE, Timothy C. | 38,553 | VAN ES, J. Pieter | 37,746 |
| FEDORCHKO, Gary D. | 35,509 | MEEKER, Frederic M. | 35,282 | WITCOFF, Sheldon W. | 17,399 |
| FISHER, William J. | 32,133 | MILLER, Charles L. | 43,805 | WOLFFE, Franklin D. | 19,724 |
| GLEMBOCKI, Christopher R. | 38,800 | MITRIUS, Janice V. | 43,808 | WOLFFE, Susan A. | 33,568 |
| HANLON, Brian E. | 40,449 | MORENO, Christopher P. | 38,566 | WRIGHT, Bradley C. | 38,061 |
| HEMMENDINGER, Lisa M. | 42,653 | NELSON, Jon O. | 24,566 | | |
| HONG, Patricia E. | 34,373 | NIEGOWSKI, James A. | 28,331 | | |

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We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature [Signature] Date 11/28/00
Full Name of First Inventor Vogelstein Bert
Family Name First Given Name Second Given Name
Residence Baltimore, Maryland Citizenship United States
Post Office Address 3700 Breton Way, Baltimore, Maryland 21208

Signature [Signature] Date 11/28/00
Full Name of Second Inventor Kinzel Kenneth W.
Family Name First Given Name Second Given Name
Residence BelAir, Maryland Citizenship United States
Post Office Address 1403 Halkirk Way, BelAir, Maryland 21015

ASSIGNMENT

WHEREAS, We, Bert Vogelstein, citizen of the United States, residing at 3700 Breton Way, Baltimore, Maryland 21208, and Kenneth W. Kinzler, citizen of the United States, residing at 1403 Halkirk Way, BelAir, Maryland 21015; have invented certain new and useful improvements in "DIGITAL AMPLIFICATION", for which an application for Letters Patent of the United States was filed on July 11, 2000, and accorded Serial No. 09/613,826; and

WHEREAS, The Johns Hopkins University, a corporation duly organized under the laws of the State of Maryland having a place of business in Baltimore, Maryland, is desirous of acquiring the entire right, title and interest in and to the aforesaid invention and in and to any Letters Patent of the United States or any foreign country which may be granted therefor;

NOW THEREFORE, for good and valuable consideration, we, the said Bert Vogelstein, and Kenneth W. Kinzler by these presents do sell, assign, and transfer unto The Johns Hopkins University, its successors, legal representatives and assigns, the full and exclusive right to the said invention as described in the said application, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations and extensions thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks or any other proper officer or agency of any country to issue all said Letters Patent to said assignee;

AND WE HEREBY warrant and covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any instrument or assignment in conflict herewith;

AND WE HEREBY agree to communicate to said assignee or its representatives any facts known to us respecting said invention, to execute all divisional, continuation, reissue and foreign applications, sign all lawful documents and make all rightful oaths relating to said invention, and to testify in any judicial or administrative proceeding and generally do everything possible to aid the said assignee to obtain and enforce said Letters Patent in the United States or any foreign country when requested so to do by said assignee.

IN WITNESS WHEREOF, we have hereunto set our hand and seal.

Date:

11/28/00

Inventor:

11/28/00

Bert Vogelstein

Date:

11/28/00

Inventor:

Kenneth W. Kinzler

Kenneth W. Kinzler

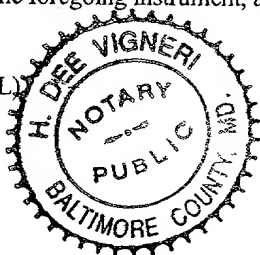
STATE OF MARYLAND)

) ss

COUNTY OF BALTIMORE)

On this 28 day of November, 2000, before me a Notary Public in and for the County and State aforesaid, personally appeared Bert Vogelstein, and Kenneth W. Kinzler, to me known and known to me to be the persons of those names, who signed and sealed the foregoing instrument, and acknowledged the same to be their free act and deed.

(SEAL)



H. Dee Vigneri
Notary Public

My Commission Expires:

10-01-01